AMENDED CLAIMS

1. A recuperative heat exchanger for the exchange of heat between two media across a heat-transferring wall made from a shaped patterned sheet which is repeatedly folded to form a multi-layered package which is enclosed in an outer casing, said sheet, owing to its shaping after folding, forming a package of alternating flow channels having connecting ports (22-25; 29-32) for the two media on the two oppposite sides of the package, c h a r a c t e r i z e d in that the pattern of the sheet is in the form of corrugations extending at an oblique angle to the lengthwise extension of the sheet and in the folded condition of the sheet forming crossing ridges, the ends of said package formed by the longitudinal side edges of the sheet being covered by a sealing layer (13) and mutually opposite sides of said package extending between said ends likewise being provided with sealing strips (14) extending between said ends, said package being so adapted to the dimensions of the external casing (15, 21; 28, 34, 35) that said package, when disposed inside said casing, is surrounded thereby along said seals between the package and the casing, thus keeping each medium separated from the other on its respective one of the sides of the folded sheet, in communication with its associated connecting ports (22-25; 29-32).

2. A heat exchanger as claimed in claim 1, c h a r a c t e r i z e d in that the corrugations in the sheet is interrupted at suitable intervals and replaced by folding lines (9) to facilitate folding of the sheet.

3. A heat exchanger as claimed in claim 1 ~~or 2~~, c h a r a c t e r i z e d in that the angle of the corrugations to the lengthwise extension of the sheet is

less than 45° whereby the resistance to flow towards the ends of the sheet packet becomes higher in the intended direction of flow than crosswise to said direction, while the resistance to flow in the mid-section of the sheet package is low in the intended direction of flow.

ADD A1

Add F'

add G'